INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/38950

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C12Q 1/68; C12N 15/63					
US CL	: 435/6, 455	ional alossification and IDC			
	International Patent Classification (IPC) or to both nat	ional classification and IPC			
	DS SEARCHED				
Minimum doo U.S. : 42	cumentation searched (classification system followed b 35/6, 455	y classification symbols)			
Documentation	on searched other than minimum documentation to the	extent that such documents are included	in the fields searched		
	ta base consulted during the international search (name us, Medline, Embase, Biosis	of data base and, where practicable, sea	rch terms used)		
Category *	Citation of document, with indication, where ap		Relevant to claim No.		
Х	Mansell, A. et al. "The serine protease inhibitor anti kappaB activation by TLR-4", November 2001, FEB	S letters, Vol. 508: pp.313-317.	1		
х	Yoshimura, A. et al. "Lipopolysaccharides from Per gingivalis and Capnocytophaga achracea Are Antago Jan. 2002, Vol. 70: pp. 218-225.	1.			
X, P	Ohta, S. "Identification of a novel isoform of MD-2 that downregulates lipopolysaccharide		1, 4, 5-6.		
x	signaling", November 2004, Biochem. Biophys. Res. Comm., Vol. 323: pp.1103-1108. Su, B. et al., "Heliobacter pylori Activates Toll-Like Receptor 4 Expression in		1, 8.		
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Х	Hatakeyama, J. "Contrating responses of human gingival and periodontal ligament fibroblasts to bacterial cell-surface components through the CD14/Toll-like receptor system", Feb. 2003, Oral Micro. Immun., Vol. 18: pp. 14-23.		1, 8.		
x	WO 03/035110 A1 (Arditi et al) 1 May 2003 (1.05.2003), pages 5-8.		1-6, 8.		
X,P	WO 2004/093778 (Cohen et al) 4 November 2004 (0 especially pages 4-9.	4.11.2004), see entire document,	1-4		
N	li di	See retent family anney	1		
	documents are listed in the continuation of Box C.	See patent family annex.	anne de la constant		
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be		"T" later document published after the in date and not in conflict with the appl principle or theory underlying the in	ication but cited to understand the		
of particu	lar relevance	"X" document of particular relevance; the	e claimed invention cannot be		
"E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to		considered novel or cannot be considered to involve an inventive step when the document is taken alone			
establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination			
"O" document	t referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in	he art		
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family			
Date of the actual completion of the international search		Date of mailing of the international search report 1 1 A PD 2005			
	05 (19.03.2005)	Authorized officer	-11/21		
Name and mailing address of the ISA/US		Authorized officer Management			
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tegory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
A	US 6,740,487 B1 (Schwartz et al) 25 May 2004 (25.05.2004)	1-17
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